



Technical Specifications for all SimCube Models SC-5, SC-4, SC-3

Physical Dimensions	SC-5	SC-3/4
Size	3"x 3" x 3.5" (7.6cm X 7.6cm X 8.9cm)	3"x 3"x 3.5" (7.6cm X 7.6cm X 8.9cm)
Weight	2.5 Lbs	2.5 Lbs
Power	External A/C Adaptor (Output: 6VDC / 2amps, 2.1mm, center positive connector) or 4 AA Batteries (with Battery Boost Option)	External A/C Adaptor (Output: 6VDC / 2amps, 2.1mm, center positive connector) or 4 AA Batts (with Battery Boost Option)
NIBP Connection	Quick Disconnect	Quick Disconnect
ECG/Resp Connection	10 ECG snaps	10 ECG snaps
IBP Connection	Mini-DIN	
<b>Manometer</b>		
Range	- 400 to + 400 mmHg	0 to +480 mmHg
Precision	0.1 mmHg	0.5 mmHg
Accuracy	+/-1 mmHg	+/-1% of reading
<b>User Interface</b>		
Single Button Operation		
Operating Modes	Adult NIBP Neo NIBP Hypertensive NIBP Hypotensive NIBP Manometer Peak Detect / Overpressure HR Seq. Alarm Test ECG Asystole ECG Resp OFF ECG Pace ON Arrhythmia Sequence Invasive BP Zero Invasive BP 100, 200 Invasive BP Sequence	Adult NIBP Neo NIBP Hypertensive NIBP Manometer Peak Detect / Overpressure Alarm Test (SC-4) ECG Asystole (SC-4) ECG Resp OFF (SC-4) ECG Pace ON (SC-4)
<b>NIBP Adult Simulation</b>		
Simulated Pressure	120/80 (97) mmHg	120/80 (97) mmHg
Simulated Heart Rate	70 bpm	70 bpm
Simulated Pulse Volume	1 ml	1 ml
<b>NIBP Neonatal Simulation</b>		
Simulated Pressure	70/40 (51) mmHg	70/40 (51) mmHg
Simulated Heart Rate	95 bpm	95 bpm
Simulated Pulse Volume	0.25 ml	0.25 ml
<b>NIBP Hypertensive Simulation</b>		
Simulated Pressure	190/120 (142) mmHg	190/120 (142) mmHg
Simulated Heart Rate	70 bpm	70 bpm
Simulated Pulse Volume	1 ml	1 ml
<b>NIBP Hypotensive Simulation</b>		
Simulated Pressure	80/40 (58) mmHg	
Simulated Heart Rate	70 bpm	
Simulated Pulse Volume	1 ml	
<b>ECG Simulation</b>		<b>(SC-4 only)</b>
Isolated	Yes	Yes
Synchronized with NIBP	Yes	Yes
R Wave Size	1mV (lead I) +/- 5%	1mV (lead I) +/- 5%
R Wave Width	35 ms	35 ms
Wave Shape	QRS wave	QRS wave
Connection	10 Snaps	10 Snaps
Simulation Rates	70, 95, Asystole, Arrhythmia, Pacer,	70 bpm (95 bpm for neonatal),

	HR seq.	Asystole, Pacer
<b>HR Sequence (Alarm Test)</b>		<b>(SC-4 only)</b>
	30 seconds each of: 30, 60, 90, 120, 45, 160, and 220 bpm	30 seconds each of: 30, 60, 90, 120, 45, 160, and 220 bpm
<b>Pacer Simulation</b>		<b>(SC-4 only)</b>
Isolated	Yes	Yes
Synchronized with NIBP	Yes	Yes
Pacer Size	3 mV	3 mV
Pacer Width	1.2 ms	1.2 ms
<b>Respiration Simulation</b>		<b>(SC-4 only)</b>
Isolated	Yes	Yes
Wave Shape	Square Wave	Square Wave
Size	4 Ohm	4 Ohm
Rate	20 bpm (40 bpm for neonatal)	35 bpm (47 bpm for neonatal)
Simulation rates	30 seconds each of: Apnea, 30, 45, 60, 22, 80, 110.	30 seconds each of: Apnea, 30, 45, 60, 22, 80, 110.
<b>Arrhythmia Simulation</b>		
	Cardiac failure sequence: 90 seconds of normal beats interspersed with PVCs and Runs, followed by 30 seconds of VTAC, followed by 30 seconds of VFIB, concluding with 30 seconds of asystole.	
<b>Peak Detect</b>		
Precision	1mmHg	1mmHg
<b>Invasive Blood Pressure Simulation</b>		
Isolated	Yes	
Synchronized with NIBP	Yes	
Excitation Voltage	DC range = 3.3 to 5.7 AC range = 6.65 to 11.4p-p	
Pressure range	0-250 mmHg	
Simulated Pressure accuracy	+/- 1 mmHg	
Wiring	+ Excit = pin 1, - Excit = pin 4, + Sig = pin 3, -Sig = pin 6	
Simulation rates	Dynamic = 120/80, 70/40, 190/120. Static = 0, 100, 200. Step = 0,25,50,100,150,200, 250	
<b>Environmental</b>		
Voltage Range	100-240 VAC, 50-60 Hz	100-240 VAC, 50-60 Hz



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